

Mock Exam Practice for Grade 4 2024-2025

Mock Exam Practice Grade 4 Term 3

2024-2025

	Name اسم الطالب
4- ____	Class الصف
Al Sumow School	School المدرسة
Science	Subject المادة

Notes:

This exam is a practice

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الدليل الإرشادي للامتحان Exam Guidelines

ملاحظات Comment	محتوى الامتحان Syllabus	المادة Subject	اليوم والتاريخ Day & Date
	<p>Inspire Curriculum Structures and Functions of Plants. Outcome: Students will construct an argument to explain how plants use their structures to survive, grow and reproduce.</p> <p>Structures and Functions of Animals. Outcome: Students will construct an argument to explain how animals use their structures to survive, grow, and reproduce.</p> <p>Information Processing in Animals. Outcome: Students will use a model to explain how animals sense and interpret their environment.</p> <p>Role of Animal's Eyes. Outcome: Student will develop and use a model to explain how light reflecting from objects allows animal's eyes to see.</p> <p>Information Transfer. Outcome: Students will construct and explanation about how patterns are used to transmit information.</p>	Science	Monday 10/06/2025

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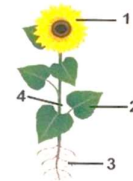
نماذج الأسئلة
Sample Questions

PART 1:
MULTIPLE CHOICE QUESTIONS

Circle the letter corresponding to the correct answer.

Question 1

Which of the following plant parts plays the biggest role in supporting the plant?



A	1
B	2
C	3
D	4

Question 2

What do plants NOT need to survive?

A	Nutrients
B	Sunlight
C	Gases
D	Shelter

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Question 3

A cactus has a thick waxy stem to store water. This is an example of

A	behavior
B	tropism
C	adaptation
D	transpiration





Question 4

Which of the following sentences best describes why animals need food and space to survive?

A	Animals need food for energy and space to get sunlight.
B	Animals need water for energy and oxygen to raise their young.
C	Animals need food for energy and space to build shelters.
D	Animals need sunlight to make their own food and space to hunt.

Question 5

In the figure below, which number represents the foot that best catches prey?

Shape of foot			
1	2	3	4
			

A	1
B	2
C	3
D	4

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Question 6

What adaptation does the milk snake shown in the picture have?



A	Camouflage because it is blending into its environment.
B	Mimicry because it looks like a more harmful coral snake.
C	Migration because it is moving to a warmer place.
D	Hibernation because it will be inactive to avoid the winter.

Question 7

Which of the following flow diagrams best explains how information is processed and transferred in the picture?



A	brain→ spinal cord → nerves → arms→eyes → nerves→ spinal cord
B	eyes→ nerves→ spinal cord→ brain→spinal cord → nerves→arms
C	arms→ nerves→ spinal cord→ brain → spinal cord →nerves → eyes
D	spinal cord → nerves → arms

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Question 8

The figure shows ants using antennae to detect



A	sounds
B	smells
C	tastes
D	rough surfaces

Question 9

A is a quick reaction that happens without the nerves needing to send a message to the brain.

A	perception
B	sense
C	reflex
D	stimulus

Question 10

Most surfaces reflect at least some light . Smooth shiny surfaces such as mirrors reflect falling on them.



A	almost all the light
B	small amount of the light
C	no light
D	the least amount of light

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Question 11

Which of the following is used in eyeglasses for people who are farsighted?



A	Convex lenses
B	Concave lenses
C	Convex mirrors
D	Concave mirrors

Question 12

What happens if light to the eye is blocked?



A	The image you see will be clearer.
B	The image will become blurry.
C	There will be no image.
D	The image will remain the same.

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Question 13

A design criterion for an information transfer device is the accuracy of the message received.

Information Transfer Device	Accuracy of Received Messages (%)
Design 1	89.8
Design 2	99.7
Design 3	96.4
Design 4	92.1

The table above shows the results on four different designs. Which option correctly orders the designs from best to worst?

A	1-2-3-4
B	4-3-2-1
C	2-3-4-1
D	1-4-3-2

Question 14

What system sends messages as a series of 0 and 1 ?

A	binary code
B	telegraph
C	sundial
D	morse code

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Question 15

What transmits information using electromagnetic waves that are converted to sound?

A	Telegraph
B	Radio
C	Sonar
D	Smoke signals

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PART 2:
FREE RESPONSE QUESTIONS

Question 16

Fill in the blanks using the words below to describe how plant structures help them survive.

roots

stems

water

support

adaptation

food

leaves

structures



The (a) _____ of the redwood tree helps it grow, survive and reproduce. Even though they have different shapes, they still function the same way

Their (b) _____ are tall and woody to (c) _____ them.

Their (d) _____ capture sunlight to make (e) _____.

Their (f) _____ absorb nutrients and (g) _____.

Their leaves also help move moisture from the air to the ground. This (h) _____ helps them survive in their environment.

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Question 17

I. Classify the following structures as internal or external.

lungs ----- beak ----- heart ----- wings

Internal structures	External structures

II. Match the structure to its function

Column A	
Teeth	
Eyes	
Claws	
Gills	

Column B
Defense
Break down food
Find prey
Take in oxygen

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Question 18

- I. Look at the diagram below and answer the questions that follow. You may use the following words to complete the sentences. You do NOT need all the words.

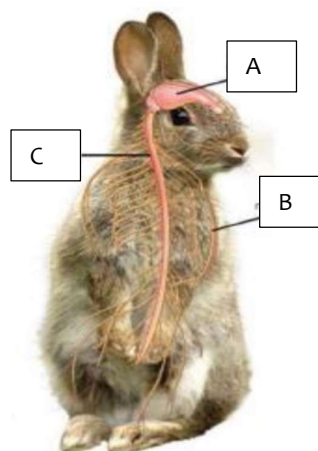
spinal cord	brain	nerves
peripheral nervous system	central nervous system	
reflex	response	stimulus
		perception

a) Letter C is

b) The organ that interprets messages received from and sends messages to the body is the

c) is made up of the brain and spinal cord.

d) Is the process of recognizing and interpreting a stimulus.



- II. A rabbit sees a fox. Explain what happens in the rabbit's body that causes the rabbit to run away and hide.

.....

.....

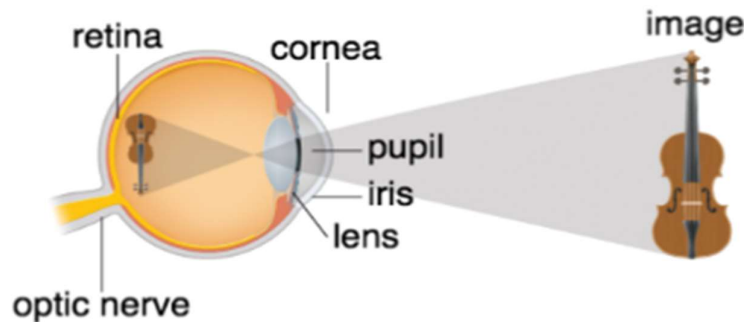
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Question 19

- I. Look at the diagram below and answer the questions that follow. You may use the following words to complete the sentences.

refracts	reflects	images	retina	pupil
----------	----------	--------	--------	-------



Light (a)..... off an object and enters your eye. Light passes through the cornea and (b) in your iris and enters your eye. The lens (c) the light so that it hits the (d) on the back of the eye. The eye receives upside -down (e) The brain interprets the signals.

- II. Where are the eyes of most predators located?

.....

- III. What would happen if the cornea is scratched or the animal develops a cataract and how would this affect the animal?

.....

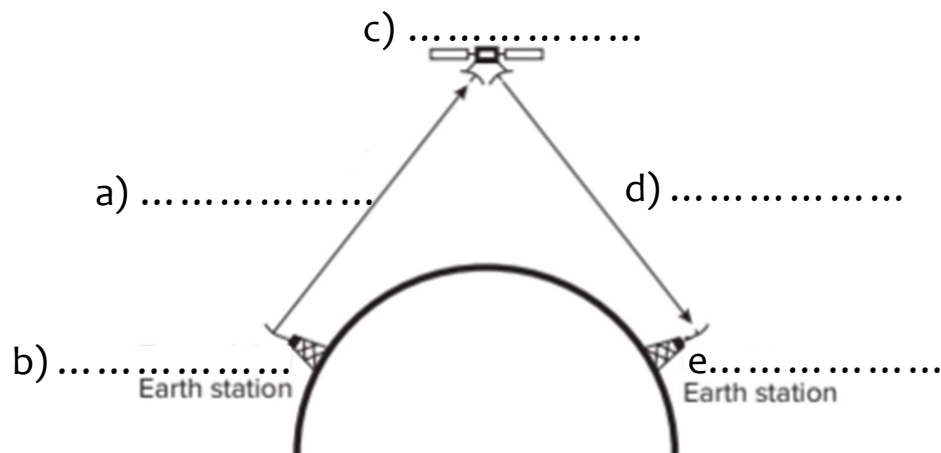
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Question 20

- I. Use the words in the box to label the diagram below that demonstrates the transfer of information in communication satellites.

satellite	uplink	downlink	receiving	transmitting
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- II. What type of waves are used by communication satellites?

.....

- III. Name one type of file that can be transmitted.

.....

- IV. What is one advantage of using a communication satellite?

.....

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دليل الإجابة
Answer Guidelines

الإجابة Answer	رقم السؤال Item
D- 4	1.
D- Shelter	2.
C- Adaptation	3.
C- Animals need food for energy and space to build shelters.	4.
C- 3	5.
B- Mimicry because it looks like a more harmful coral snake.	6.
B- eyes→ nerves→ spinal cord→ brain→spinal cord → nerves→arms	7.
B- smells	8.
C- reflex	9.
A- almost all the light	10.
A- convex lenses	11.
C- there will be no image	12.
C- 2-3-4-1	13.
A-binary code	14.
B- radio	15.
<p>The (a) structures of the redwood tree helps it grow, survive and reproduce. Even though they have different shapes, they still function the same way</p> <p>Their (b) stems are tall and woody to (c) support them.</p> <p>Their (d) leaves capture sunlight to make (e) food.</p> <p>Their (f) roots absorb nutrients and (g) water.</p> <p>Their leaves also help move moisture from the air to the ground. This (h) adaptation helps them survive in their environment.</p> <p>1 mark each word = 8 marks</p>	16





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17

Internal structures	External structures
lungs	beak
heart	wings

1 mark each option =4

II. Match the structure to its function

Column A		Column B
Teeth		Defense
Eyes		Break down food
Claws		Find prey
Gills		Take in oxygen

1 mark each correct option =4

Total 8 marks

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18

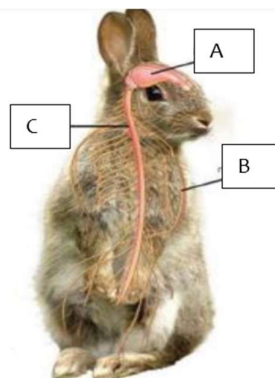
a) Letter C is **Spinal cord**

b) The organ that interprets messages received from and sends messages to the

body is the **brain**

c) **Central nervous system** is made up of the brain and spinal cord.

d) **perception** Is the process of recognizing and interpreting a stimulus.



1 mark each = 4

II. A rabbit sees a fox. Explain what happens in the rabbit's body that causes the rabbit to run away and hide.

The eyes see the danger and send a message via the nerves and spinal cord to the brain. The brain sends a message back via the spinal cord to the legs and arms to run.

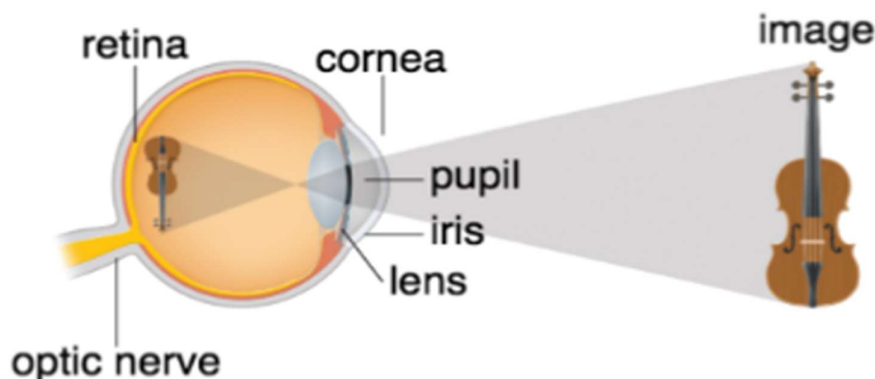
Or any other answer that mentions the correct order of relaying the message from the sense organ to the brain and back to the legs to run.

1 mark eyes, 1 mark message to brain, 1 mark message back using spinal cord 1 mark to legs = 4 marks

Total 8 marks

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Light (a).....**reflects**..... off an object and enters your eye. Light passes through the cornea and (b) **pupil**..... in your iris and enters your eye. The lens (c)**refracts**..... the light so that it hits the (d) **retina**..... on the back of the eye. The eye receives upside -down (e) **images**..... The brain interprets the signals.

1 mark each = 5 marks

II. Where are the eyes of most predators located?

In front of their head.....

III. What would happen if the cornea is scratched or the animal develops a cataract and how would this affect the animal?

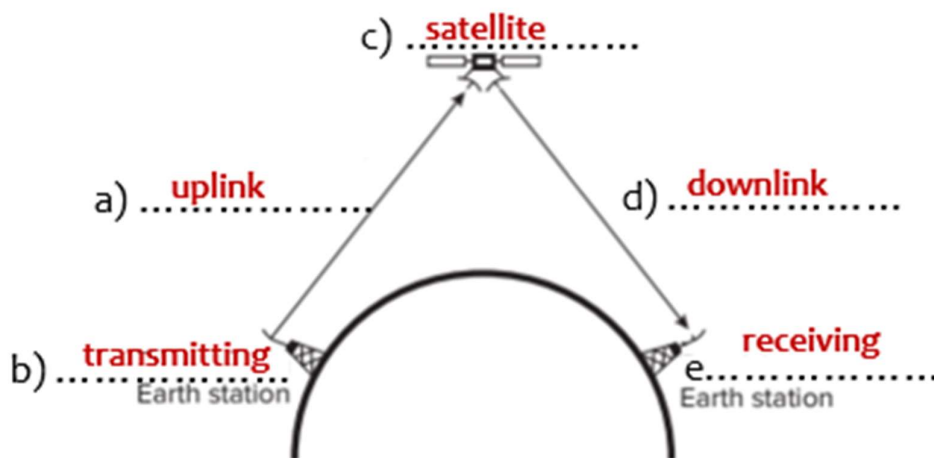
The animal's vision would be blurry (1 mark for blurry or similar).....
and they will not be able to see / hunt / escape (1 mark for any relevant response).....

1 mark each = 3 marks

Total 8 marks

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20



1 mark each = 5 marks

1 mark each = 5 marks

II. What type of waves are used by communication satellites?

Radio

1 mark

III. Name one type of file that can be transmitted.

phone call / video / information / internet information

1 mark for any 1

IV. What is one advantage of using a communication satellite?

Allow information to be sent in places that cell phones or other communication methods do not work

OR any relevant answer

1 mark

1 mark each = 3 marks

Total 8 marks